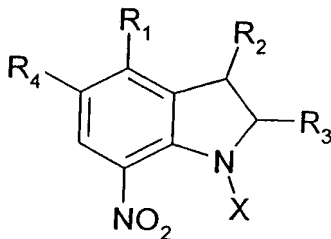


17.✓ (New) A compound represented by the structural formula:



wherein

$R_1$  is hydrogen;

$C_{1-10}$  alkyl or substituted alkyl;

$;O(CH_2)_n-Y$

$N(COZ)(CH_2)_mY$ ; or

$N[(CH_2)_mQ][(CH_2)_nY]$ ;

$R_2$  and  $R_3$  are independently selected from:

hydrogen;

$C_{1-10}$  alkyl or substituted alkyl; or

$R_2$  and  $R_3$  together are cycloalkyl;

$R_4$  is hydrogen;

$C_{1-10}$  alkyl or substituted alkyl;

phenyl or substituted phenyl;

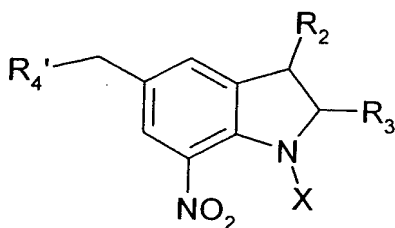
$(CH_2)_nY$ ; or

$(CH_2)_mO(CH_2)_nY$ ;

wherein:

m and n are independently between 1 and 10;  
Q and Y are independently selected from hydrogen,  
CO<sub>2</sub>H or salts thereof or OPO<sub>3</sub><sup>2-</sup>;  
Z is hydrogen or C<sub>1-10</sub> alkyl or substituted alkyl;  
and,  
X is an amino acid, a peptide, oligopeptide or  
polypeptide.

✓  
18. (New) A compound represented by the structural formula:



wherein

R<sub>2</sub> and R<sub>3</sub> are independently selected from hydrogen,  
C<sub>1-10</sub> alkyl or substituted alkyl, or R<sub>2</sub> and R<sub>3</sub> together  
are cycloalkyl;  
R<sub>4</sub>' is a blocking group; and,  
X is an amino acid, a peptide, oligopeptide or  
polypeptide.

19. (New) The compound of claim 18, wherein  $R_4'$  is selected from:

hydrogen;

$C_{1-10}$  alkyl or substituted alkyl;

phenyl or substituted phenyl;

$(CH_2)_nCO_2Y$ ; and,

$(CH_2)_n-O-(CH_2)_mY$ ;

wherein:

m and n are independently between 0 and 10; and,

Y is hydrogen, or  $C_{1-10}$  alkyl or substituted alkyl.

- A*  
*cont*
20. (New) The compound of claim 17 or a salt thereof, wherein the compound is:

Methyl 1-glutaryl-7-nitroindoline-5-acetate 8;

Methyl 1-[(5-dihydroxyphosphoryloxy)pentanoyl]-7-nitroindoline-5-acetate 9;

Methyl 1-[S-(4-amino-4-carboxybutanoyl)]-7-nitroindoline-5-acetate 10;

Methyl 1-(4-aminobutanoyl)-7-nitroindoline-5-acetate 21;

Methyl 1-acetyl-7-nitroindoline-5-acetate 16;

Mono[1-(5-methoxycarbonylmethyl-7-nitroindolyl)] amide of 1,2-bis(O-aminophenoxy)ethane-N,N,N',N'-tetraacetic acid;

1-Acetyl-4-methoxy-7-nitroindoline 25;

1-Acetyl-4-methoxy-5-methy-7-nitroindoline 30;

1-[S-(4-Amino-4-carboxybutanoyl)]-4-methoxy-7-nitroindoline;  
1-(4-Aminobutanoyl)-4-methoxy-7-nitroindoline;  
1-[(5-Dihydroxyphosphoryloxy)pentanoyl]-4-methoxy-7-nitroindoline;  
1-[S-(4-Amino-4-carboxybutanoyl)]-4-methoxy-5-methyl-7-nitroindoline;  
1-(4-Aminobutanoyl)-4-methoxy-5-methyl-7-nitroindoline; or  
1-[(5-Dihydroxyphosphoryloxy)pentanoyl]-4-methoxy-5-methyl-7-nitroindoline.

21. (New) The compound of claim 18, or a salt thereof, wherein the compound is:

Methyl 1-glutaryl-7-nitroindoline-5-acetate 8;  
Methyl 1-[(5-dihydroxyphosphoryloxy)pentanoyl]-7-nitroindoline-5-acetate 9;  
Methyl 1-[S-(4-amino-4-carboxybutanoyl)]-7-nitroindoline-5-acetate 10;  
Methyl 1-(4-aminobutanoyl)-7-nitroindoline-5-acetate 21;  
Methyl 1-acetyl-7-nitroindoline-5-acetate 16;  
Mono[1-(5-methoxycarbonylmethyl-7-nitroindolyl)] amide of 1,2-bis(O-aminophenoxy)ethane-N,N,N',N'-tetraacetic acid;  
1-Acetyl-4-methoxy-7-nitroindoline 25;

1-Acetyl-4-methoxy-5-methy-7-nitroindoline 30;  
1-[S-(4-Amino-4-carboxybutanoyl)]-4-methoxy-7-nitroindoline;  
1-(4-Aminobutanoyl)-4-methoxy-7-nitroindoline;  
1-[(5-Dihydroxyphosphoryloxy)pentanoyl]-4-methoxy-7-nitroindoline;  
1-[S-(4-Amino-4-carboxybutanoyl)]-4-methoxy-5-methyl-7-nitroindoline;  
1-(4-Aminobutanoyl)-4-methoxy-5-methyl-7-nitroindoline; or  
1-[(5-Dihydroxyphosphoryloxy)pentanoyl]-4-methoxy-5-methyl-7-nitroindoline.

22. (New) The compound of claim 17, wherein X represents a neuroactive amino acid selected from the group of L-glutamate, GABA or glycine.
23. (New) The compound of claim 18, wherein X represents a neuroactive amino acid selected from the group of L-glutamate, GABA or glycine.
24. (New) The compound of claim 17, wherein X represents a peptide selected from the group of thyrotrophin releasing hormone, an enkephalin, bradykinin or angiotensin II.

25. (New) The compound of claim 18, wherein X represents a peptide selected from the group of thyrotrophin releasing hormone, an enkephalin, bradykinin or angiotensin II.
26. (New) A composition comprising a compound of claim 17.
27. (New) A composition comprising a compound of claim 18.
28. (New) A composition comprising a compound of claim 19.
29. (New) A composition comprising a compound of claim 20.
30. (New) A composition comprising a compound of claim 21.
31. (New) A process for releasing an amino acid, a peptide or polypeptide, the process comprising irradiating a photoreleasable compound of claim 17 to cause the release of the amino acid, neuroactive amino acid, peptide, oligopeptide or polypeptide.
32. (New) The process of claim 31, wherein said amino acid comprises a neuroactive amino acid.
33. (New) A process for releasing an amino acid, a neuroactive amino acid, a peptide or polypeptide, the process comprising irradiating a photoreleasable compound

of claim 18 to cause the release of the amino acid, peptide, oligopeptide or polypeptide.

34. (New) The process of claim 33, wherein said amino acid comprises a neuroactive amino acid.

35. (New) A process for releasing an amino acid, a neuroactive amino acid, a peptide or polypeptide, the process comprising irradiating a photoreleasable compound of claim 19 to cause the release of the amino acid, neuroactive amino acid, peptide, oligopeptide or polypeptide.

36. (New) The process of claim 35, wherein said amino acid comprises a neuroactive amino acid.

37. (New) A process for releasing an amino acid, a neuroactive amino acid, a peptide or polypeptide, the process comprising irradiating a photoreleasable compound of claim 20 to cause the release of the amino acid, neuroactive amino acid, peptide, oligopeptide or polypeptide.

38. (New) The process of claim 37, wherein said amino acid comprises a neuroactive amino acid.

39. (New) A process for releasing an amino acid, a neuroactive amino acid, a peptide or polypeptide, the process comprising irradiating a photoreleasable compound of claim 21 to cause the release of the amino acid, neuroactive amino acid, peptide, oligopeptide or polypeptide.

40. (New) The process of claim 39, wherein said amino acid comprises a neuroactive amino acid.

*21 cont*  
41. (New) A process of producing a compound of claim 17, the process comprising:

- (a) reacting indoline or a derivatized indoline to substitute a blocking group at the 5-position;
- (b) reacting the indoline compound of step (a) to couple an effector moiety at the heterocyclic nitrogen, the effector group having a protecting group; and,
- (c) nitrating the indoline compound of step (b) at the 7-position to produce said compound.

42. (New) A process for purifying a compound of claim 17, the process comprising:

- (a) eluting the compound from a HPLC column using aqueous methanol containing buffer salts;
- (b) desalting fractions containing the compound obtained from step (a) on Amberlite XAD-2™ resin; and,